

Name: Key

Date: _____ Period: _____

29
answers

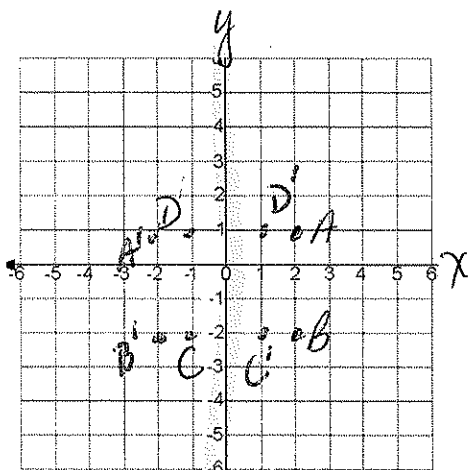
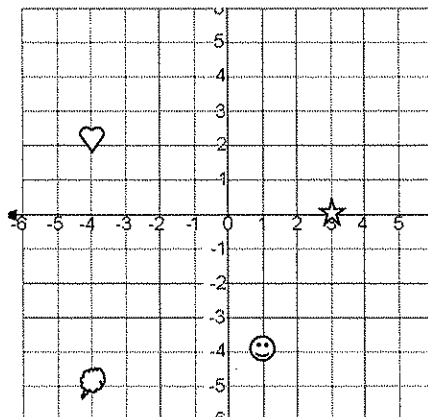
Math Quiz

Coordinate Grids, Reflections and Distance between Points

1. Look at the coordinate grid on the right.
Label the coordinate points for each item:

♥ $(-4, 2)$ ☆ $(3, 0)$

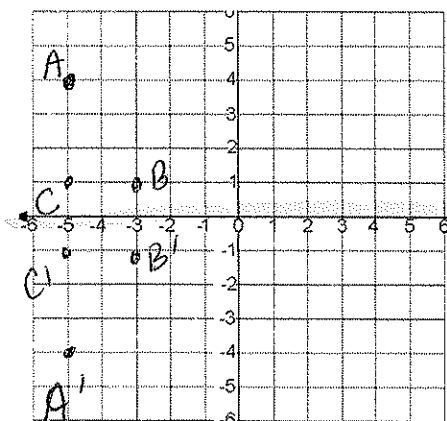
☺ $(1, -4)$ ☁ $(-4, -5)$



2. Using the coordinate grid on the left, plot the following points:

A $(2, 1)$ → $(-2, 1)$ A'
B $(2, -2)$ → $(-2, -2)$ B'
C $(-1, -2)$ → $(1, -2)$ C'
D $(-1, 1)$ → $(1, 1)$ D'

Reflect the points above over the y-axis.
What are the new coordinates?



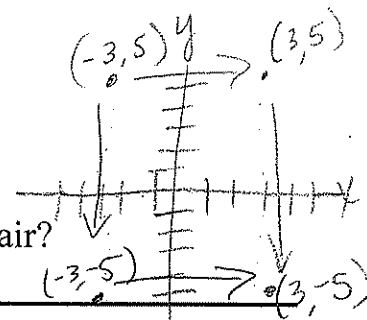
3. Using the coordinate grid on the left, plot the following points:

A $(-5, 4)$ → $(5, -4)$ A'
B $(-3, 1)$ → $(3, -1)$ B'
C $(-5, 1)$ → $(5, -1)$ C'

Reflect the points over the x-axis.
What are the new coordinates?

4. If $(-3, 5)$ was reflected over both axes, what is the new ordered pair?

$(3, -5)$



5. What is the distance between the following ordered pairs?

same
quad

a) $(-3, 4)$ and $(-5, 4)$

$$5 - 3 = 2 \text{ units}$$

same
quad

b) $(6, -4)$ and $(3, -4)$

$$6 - 3 = 3 \text{ units}$$

c) $(3, -5\frac{1}{2})$ and $(3, 2\frac{1}{4})$ $| -5\frac{1}{2} | + | 2\frac{1}{4} |$

$$5\frac{1}{2} + 2\frac{1}{4}$$

$$\begin{array}{r} 5\frac{2}{4} \\ + 2\frac{1}{4} \\ \hline 7\frac{3}{4} \text{ units} \end{array}$$

$$(-3, 4) \quad (-3, 4)$$

